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No 16, 1936, pp 433-441.

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S.L.A. Tr No 211/1955

Sci - Minerals/Metals
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Trans. from [Metall und Erz (Germany) 1942, v. 39,
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DESCRIPTORS: *Cobalt, *Electrolysis, Electrolytes,
Cobalt compounds, Chlorides, Sulfates, Manufacturing
methods.

(Metallurgy--Nonferrous Metals, TT, v. 10, no. 7)

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Order from SLA \$1.10

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no. 17/18, p. 203-205.

DESCRIPTORS: *Ores, *Pyrites, *Copper, Furnaces,
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Corrosion and Corrosion Resistant Alloys for the
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*NBS TT 70-57866

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With 4-12% Al, by C. Seibert. W&C
GmbH, per, Metallforschung, Vol I, No 4/5,
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On the Press Effect of the Al-Zn-Mg Alloy EY 43 with 4.5%
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<p>Fischer, J., Zettler, H., and Dolwa, A. QUANTITATIVE DETERMINATION OF LITHIUM IN MINERALS AND INTERMEDIATE PRODUCTS. II. FLAME SPECTROMETRIC METHODS. 24 Apr 56 [18]p. Order from SLA \$1.60</p> <p>Trans. of Metallgesellschaft A. G., Frankfurt a.M. TS Rept. no. 2114, rev. ed., 20 Jan 54.</p> <p>DESCRIPTORS: *Lithium, Quantitative analysis, Minerals, *Flames, *Spectrographic analysis.</p> <p>(Chemistry--Analytical, TT, v. 9, no. 11)</p>	<p>62-18960</p> <p>I. Fischer, J. II. Zettler, H. III. Dolwa, A. IV. Title: Flame - spectrometric...</p> <p>Office of Technical Services</p>
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INVESTIGATION OF ALLOYS OF ZIRCONIUM WITH
NIOBIUM AND TIN IN VIEW OF THEIR UTILIZATION
AS SHEATHING MATERIAL IN WATER-COOLED
NUCLEAR REACTORS: EXAMINATION OF TUBES
MADE OF THE ALLOY ZrNb3Sn. Special technical
rept. 3 concerning proposal 139, on Contract 047-61-4
RDA. [1963] 36p. 12 refs.

Order from OTS or SLA \$3.60 EURAEC-354

Trans. of rept. from Metallgesellschaft A.G.,
Frankfurt a. M. (West Germany) 18 May 62.

DESCRIPTORS: *Light water reactors, *Niobium
alloys, *Tin alloys, *Reactor fuel cladding, Nuclear
reactors, Zirconium alloys, Heat resistant metals and
alloys, Water, Reactor coolants.

The alloy ZrNb3Sn which, in corrosion tests and
mechanical tests, had proved to be a promising
(Nuclear Physics--Nuclear Engineering, TT, v. 10, no.6)
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- I. Richter, H.
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63-15073	<p>Richter, H., Tverberg, J. C. and others. INVESTIGATION [ON ALLOYS OF ZIRCONIUM] WITH NIOBUM AND TIN WITH RESPECT TO THEIR USE AS CLADDING MATERIAL IN WATERCOOLED NU- CLEAR REACTORS. Quarterly rept. [7] 3 (2d year), 1 Oct-31 Dec 61, on Contract 047-61-4 RDA. [1962] 65p. 14 refs. Order from OTS or SLA \$6.60 EURAFC-243</p> <p>Trans. of a rept. (E-2348) from Metallgesellschaft A.G., Frankfurt am Main (West Germany) 22 Jan 62.</p> <p>DESCRIPTIONS: *Zirconium alloys, *Niobium alloys, *Tin alloys, Fuel cladding, *Nuclear reactors, Corrosion, Tests, Hydrogen, Cold-working, Creep, Welding, Solubility, Light water reactors, *Reactor fuel cladding, *Reactor materials.</p> <p>(Nuclear Physics--Nuclear Engineering, TT, v. 9, no. 12) (over)</p>
	Office of Technical Services

SOLUBILITY OF NIOBIUM IN ZIRCONIUM ALLOYS
INVESTIGATION ON ALLOYS OF ZIRCONIUM AND NIOBUM
NIOBUM ONE OF SOLUBILITY IN VARIOUS ZIRCONIUM ALLOYS
AS SHEATHING MATERIAL IN PWR REACTOR
Nuclear Reactor Res. Quarterly rep. no. 2, 1969, p. 10-11
54p. 23 refs. Supersedes TRD-477
Order from OTS or SLA \$5.00 GURA 12-25

Trans. of a rep. from Metallgesellschaft A.G.,
Frankfurt a. M. (West Germany) 1 Oct 69.

DESCRIPTORS: *Nuclear reactors, Protective coverings,
*Zirconium alloys, *Niobium alloys, *Silicon alloys,
Preparation, Solubility, Grains (Metallurgy), Corrosion
research, Creep, Tensile properties.

An investigation was made on the constitution of binary
Zr-Nb alloys. The solubility of niobium in zirconium
was highest at about 590°C, in alloys containing 15% Nb.
(Nuclear Physics - Nuclear Engineering, TT, v. 9, no. 4)

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<p>Anderko, K., Jung-König, W. and others, INVESTIGATION OF ALLOYS OF ZIRCONIUM WITH NIOBUM AND/OR SILICON IN VIEW OF THEIR USE AS SHEATHING MATERIAL IN WATER-COOLED NUCLEAR REACTORS. Quarterly rept. no. 3, (1962) 34p. 11 refs. Supersedes TID-12 478. Order from OTS or SLA \$3.60 EURAEC-85 Trans. of 1 rept. from Metallgesellschaft A. G., Frankfurt a. M. (West Germany) 5 J in 61.</p> <p>DESCRIPTORS: *Nuclear reactors, Protective coverings, *Zirconium alloys, *Nbodium alloys, *Silicon alloys, Annealing, Solubility, Grains (Metallurgy), Corrosion research, Creep.</p> <p>Investigation of Zr-Nb system was resumed and the results of the previous investigation were confirmed. The temperature dependence of the solubility of niobium in the mixed crystal of α-zirconium was (Nuclear Physics--Nuclear Engineering, TT, v. 9, no. 3) (over)</p>	<p>62-12-7</p> <p>I. Anderko, K. II. Jung-König, W. III. EURAEC-85 IV. EURATOM (Belgium) V. TID 12 478 superseded</p> <p>Office of Technical Services</p>
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On the Constitution of Zirconium-Niobium Alloys,
31 pp.

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15 Aug 1961.

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<p>Anderko, K., Jung-König, W., and others. INVESTIGATION ON ALLOYS OF TITANIUM WITH NIOBIUM AND OR SILICON WITH A VIEW TO THEIR USE AS CLADDING MATERIAL IN WATER-COOLED NUCLEAR REACTORS. Quarterly rept. no. 4. (JANET-MAR 1962) 83p. 18 refs. Order from OTI or CIA \$5.10 EURAEC-86 Trans. of rept. from Metallgesellschaft A. G., Frankfurt (Oder), West Germany) 17 Apr 64.</p> <p>DESCRIPTIVE: *Light water reactors, *Fuel elements, *Fuel cladding, Materials, *Titanium alloys, Niobium alloys, Silver alloys, Alloys, Solubility, Corrosion, Fatigue (mechanics), Tests, Nuclear reactors.</p> <p>(Nuclear Physics--Nuclear Engineering, TT, v. 9, no. 3)</p>	<p>67-20022</p> <p>I. Anderko, K. II. Jung-König, W. III. EURAEC-86 IV. EURATOM (Belgium)</p> <p>Office of Technical Intelligence</p>
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<p>Richter, H., Wincierz, P., and Zwicker, U. [INVESTIGATION ON] ALLOYS OF ZIRCONIUM WITH NIOBIUM AND/OR SILICON WITH A VIEW TO THEIR USE AS CLADDING MATERIAL IN WATER-COOLED NUCLEAR REACTORS. Quarterly rept. no. 6, 1 July-30 Sep 61; and technical rept. to pt. 2 "Length Variations in Zirconium Alloys caused by Thermal Cycling", on Contract EUR/C/382/2/60 d (009-60-4 RDA). [1962]. 28p. 10 refs. Order from OIS or SLA \$2.60 EURABC-201</p> <p>Trans. of a rept. from Metallgesellschaft A.G., Frankfurt a. M. (West Germany) 10 Oct 61.</p> <p>DESCRIPTORS: *Light water reactors, *Fuel elements, *Fuel cladding, Materials, *Zirconium alloys, Niobium alloys, Silicon alloys, Alloys, Temperature, Thermal expansion, Tests, Nuclear reactors.</p> <p>(Nuclear Physics--Nuclear Engineering. TT, v. 9, no. 2) (over)</p>	<p>62-33167</p> <p>I. Richter, H. II. Wincierz, P. III. Zwicker, U. IV. Title: Length... V. EURABC-201 VI. EURATOM (Belgium)</p> <p>Office of Technical Services</p>
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EEur - Germany
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Sci - Chemistry, Physics / Metallurgy

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Merz, A.; Kotsch, H.
THE RESISTANCE TO MOLTEN METALS OF METAL
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Order from SLA: \$1.60 as TT-65-12752

Trans. from mono. Metallische Spezialwerkstoffe, pub. by
Akademie Verlag, Berlin, 1963, p 68-77.

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A. Merz, H.
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Uranium, by E. Kohl, 13 pp.

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Selections From 'Metallic Raw Materials, Their Deposits and Their Economic Importance - Antimony," by Henrick Guiring (Germany), 47 pp.

GERMAN, bk. Die Metallischen Rohstoffe, Vol VII,
Stuttgart, 1945, pp 63-94, 119-126, 131-134.

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The Soviet Union, by Dr. E. Kohl, 10 pp.

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1954, Stuttgart, p 187, Encl to Serial No 253-55,
28 Jul 1955. CIA D 298639

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On the Tungsten-Carbon System, by K. Becker, 22 pp.

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Observations on the Hardening and Fatigue Strength
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H. Henemann, 7 : p.

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422.

SLA 58-69

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Kubaschewski, R. Hörnle, 16 pp.

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Scientific - Chemistry

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Jul 55

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Sci - Minerals/Metals
Jan 1957 CTB/dex

Properties of Metallic Melts. XIII. The Immiscible
Fusion of Liquid Gold-Tin Alloys, by D. Gobhard.

GERMAN, per, Metallkunde, Vol. XLVII, 1956,
pp 684-687.

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Order from SLA \$1.10

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Trans. of Metallurgie (Germany) 1929, v. 19,
p. 2861-2862.

DESCRIPTORS: *Catalysts, *Methanols, Synthesis,
Copper.

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(Chemistry--Organic, TT, v. 10, no. 1)

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Gebauer, Karl and Sommer, Karl.
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TT-64-10203

Trans. of Metalloberflächen (West Germany) 1947
[v. 1] no. 2, p. 23-28.

DESCRIPTORS: *Silicic acids, Fluorides, Chromic acid, *Electroplating solutions, Coatings, Life expectancy, *Metallurgical laboratories.

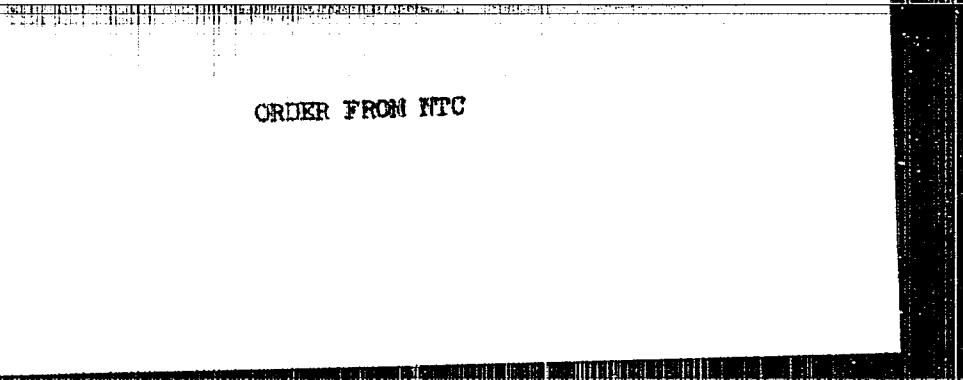
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II. Sommer, K.

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Hardness of Hard Chrome Coatings and Current Efficiency in Relation to Deposition Conditions, by
Walter Nillender, Heinrich Arend, Eugen Schmidtmann,
8 pp. UNCLASSIFIED

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Scientific - Minerals/Metals, chrome coatings

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The Production of Hard Chrome Sliding Surfaces With
Good Running Qualities, by Karl Gebauer, 14 pp.
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Aug 1948.

Navy Tr 691/DuShips 497

Scientific - Minerals/Metals, hard chromed sliding
surfaces

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Desscaling of Metals With Sodium Hydride, 5 pp.

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Studies of Corrosion of Hard Chromium Deposits,
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Scientific - Min/Metals

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Hard Chromium Deposits of Maximum Wear Resistance,
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Scientific - MM/Metals

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Sci - Minerals/MINE Metals
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Modulus of Elasticity and Strength of Hard Chromium Deposits, by W. Eilender, H. Arend, E. Schmidtmann.

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Fatigue Tests on Hard Chromium Plated Specimens, by
W. Eilender, H. Arend, K. Schmidmann.

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pp 161A-163A.

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Scientific - Min/Metals

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The Galvanizing Treatment of Aluminum, Part I and
II, by J. Fischer

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pp Nov/Dec 1949, pp 117-121.

TPM3/TIB T 3979/3980

Scientific - Minerals/Metals
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Scientific - Engineering CTS 68/May 55

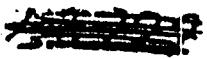
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Surface Quality of Hard Chromium Plated Parts, by
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On the Hardness of Hard Chrome Coating, by Arend, 5 pp.
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GERMAN, per, Metalloberflache, Aug B, Vol III, No 5,
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Navy Tr 776/BuShips 525

Scientific - Min/Metals

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GERMAN, per, Metalloberflächen, Vol IV, 1950, pp 171-180.

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Scientific - Metals, hardness, wear

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New Test Papers for Porosity Tests and
Identification of Metals, by A. Kutzelnigg

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Scientific - Minerals/Metals
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Jun 53 CTS/DKX

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Improvement of Surface Finish of Ground Work Piece by
Electrolytic Polishing and Relationship Between Surface
Finish and Mechanical Properties, by J. Heyen.
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Scientific - Min/Metals

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Comparative Investigations on the Polishing Effect
of a Phosphoric Acid - Sulphuric Acid Electrolyte
and an Acetic Acid - Perchloric Acid Electrolyte,
by J. Heyes. UNCLASSIFIED

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Scientific - Physics

Jul 53 CMS

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Karl Hauffe, 20 pp.
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SLA TT-64-20386

Sci - M/M
Aug 66

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